IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An electrolytic apparatus for molten salt disposed on an electrolytic cell to electrolyze an electrolytic bath consisting of a mixed molten salt comprises:

a first heat exchanging means which is provided around the electrolytic cell to heat and cool an electrolytic cell body;

an outer frame which is sealed and disposed further surrounding outside of the first heat exchanging means with space;

a decompression or a vacuum insulating zone which is formed in the outer frame; and

a thermometer which measures temperature of the electrolytic bath,

wherein the first heat exchanging means includes a pipe through which a heat exchange medium flows and a heating-cooling apparatus which heats and cools the heat exchange medium based on temperature information of the electrolytic bath supplied from the thermometer, and the insulating zone insulates the electrolytic cell and the pipe.

Claim 2 (Previously Presented): An electrolytic apparatus for molten salt according to claim 1, wherein the electrolytic cell includes a secondary heat exchanging means to heat the electrolytic cell body.

Claim 3 (Canceled).

Claim 4 (Previously Presented): An electrolytic apparatus for molten salt disposed on an electrolytic cell to electrolyze an electrolytic bath consisting of the mixed molten salt according to claim 1 or 2, further comprising:

a support member comprising one of a flange part and an upper lid;

a cover member; and

an electric insulating material and a gas sealing material disposed between the support member and the cover member in the electrolytic cell for simultaneous electric insulation and gas sealing.

Claim 5 (Previously Presented): An electrolytic apparatus for molten salt according to claims 1 or 2, wherein the first heat exchanging means includes a flow line to flow a heat exchanging medium around the electrolytic cell.

Claim 6 (Original): An electrolytic apparatus for molten salt according to claim 5, wherein the heat exchanging means is a highly electric insulating fluid.

Claim 7 (Previously Presented): An electrolytic apparatus for molten salt according to claims 1 or 2, wherein the electrolytic cell is disposed in a box, the box configured to open at an upper part.

Claim 8 (Previously Presented): An electrolytic apparatus for molten salt according to claims 1 or 2, wherein the mixed molten salt comprises of hydrogen fluoride.

Claim 9 (Currently Amended): An electrolytic apparatus for molten salt disposed on an electrolytic cell to electrolyze an electrolytic bath consisting of a mixed molten salt comprises:

a jacket configured to heat and cool an electrolytic cell body, the jacket provided around the electrolytic cell body;

an outer frame which is sealed and disposed further surrounding an outside of the jacket, the outer frame containing a space; and

a decompression or a vacuum insulating zone which is formed in the space of the outer frame; and

a thermometer configured to measure temperature of the electrolytic bath,

wherein the jacket includes a pipe configured to circulate a heat exchange medium and a heating-cooling apparatus configured to heat and cool the heat exchange medium based on temperature information of the electrolytic bath supplied from the thermometer, and the insulating zone insulates the electrolytic cell body and the pipe.

Claim 10 (Previously Presented): An electrolytic apparatus for molten salt according to claim 9, wherein the electrolytic cell further comprises:

a heating part configured to secondarily heat the electrolytic cell body.

Claim 11 (Previously Presented): An electrolytic apparatus for molten salt according to claim 9 further comprising:

an electric insulating material and a gas sealing material disposed between a support member and a cover member for simultaneous electric insulation and gas sealing.

Claim 12 (Previously Presented): An electrolytic apparatus for molten salt according to claim 6, wherein the electrolytic cell is disposed in a box, the box configured to open at an upper part.

Claim 13 (Previously Presented): An electrolytic apparatus for molten salt according to claim 6, wherein the mixed molten salt comprises of hydrogen fluoride.

Claim 14 (Previously Presented): An electrolytic apparatus according to claim 11, further comprising:

a tube which has one end connected to the heating-cooling apparatus and the other end connected to the pipe,

wherein the electrolytic cell is made of metal and the electrolytic cell is electrically insulated from the heating-cooling apparatus by the tube.

Claim 15 (Previously Presented): An electrolytic apparatus according to claim 4, further comprising:

a tube which has one end connected to the heating-cooling apparatus and the other end connected to the pipe,

wherein the electrolytic cell is made of metal and the electrolytic cell is electrically insulated from the heating-cooling apparatus by the tube.